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(71) Applicant (for all designated States except US): ARIZONA BOARD OF REGENTS, ACTING FOR AND ON BEHALF OF, ARIZONA STATE UNIVERSITY [US/US]; c/o Arizona Technology Enterprises, LLC, 699 S. Mill Avenue, Brickyard Suite 601,, Romm 691AA, Tempe, AZ 85281 (US).

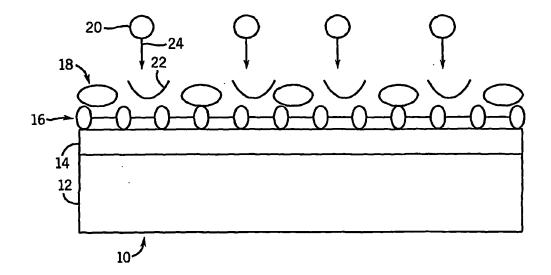
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BOOKSH, Karl, S.

[US/US]; 533 East Kyle Court, Gilbert, AZ 85296 (US). PRAKASH, Anna, M. [IN/US]; 4849 East Hilton Avenue, Mesa, AZ 85206 (US).

- (74) Agent: ATKINS, Robert, D.; Quarles & Brady Streich Lang, LLP, One Renaissance Square, Two North Central Avenue, Phoenix, AZ 85004 (US).
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(54) Title: CHEMICAL SENSORS FEATURING DUAL-SENSING MOTIFS



(57) Abstract: Apparatus and methods featuring a sensor (10) having dual-sensing motifs. The sensor (10) includes an entrant medium (12), a thin metal film layer (14), sensing elements (16), and a fluorescent molecule (18) associated with the sensing elements (16). A target molecule (20) is captured by the sensing elements (16), and Surface Plasmon Resonance (SRP) and fluorescent detection are employed. The apparatus and methods were tested for the detection of Pinacolyl methylphosphanate (PMP), a simulant for nerve agent Soman.





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FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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